IN THE PERNATIONAL BUREAU OF WIPO DT04 Rec'd PCT/PTO 1 3 SEP 2004

n re PCT application of ASH MEDICAL SYSTEMS, INC., et al	) Authorized Officer: ) LoAn H. Thanh
nternational Application	)
Number PCT/US03/07838	) Mailing Date
	) 01 December 2003
nternational Filing Date	)
14 March 2003	) Agent's File
	) Reference:
Title of Invention	) 11020-75ASH
MEDICAL DEVICES EXHIBITING	)
ANTIBACTERIAL PROPERTIES	1

## RESPONSE TO THE INTERNATIONAL SEARCH REPORT

The International Bureau WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland

Dear Sir/Madam:

In response to the International Search Report mailed

06 October 2003, regarding the above-referenced PCT Patent Application,

Applicant does not wish to make any amendments at this time.

Respectfully submitted

James B. Myers Jr. #42,021

Woodard, Emhardt, Moriarty, McNett

& Henry LLP

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(317) 634-3456

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From the INTERNATIONAL SEARCHING AUTHORITY

WOODARD, EMHARDT, NAUGHTON, MORIARTY &

Mac'd Patypye 13 SEP 2004

MCNETT, LLP BANK ONE CENTER/TOWER, SUITE 3700 111 MONUMENT CIRCLE	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION		
INDIANAPOLIS, INDIANAPOLIS 46204	(PCT Rule 44.1)		
	Date of Mailing (day/month/year) 06 OCT 2003		
Applicant's or agent's file reference 11020-75ASH	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US03/07838	International filing date (day/month/year)  14 March 2003 (14.03.2003)		
Applicant ASH MEDICAL SYSTEMS, INC			

1.	$\triangle$	The applica	The applicant is hereby notified that the international search report has been established and is transmitted herewith.		
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of		mendments and statement under Article 19: nt is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		
		When?	The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.		
		Where?	Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35		
		For more	e detailed instructions, see the notes on the accompanying sheet.		
2.		The application Article 17(2)	nt is hereby notified that no international search report will be established and that the declaration under $O(a)$ to that effect is transmitted herewith.		
3. With regard to the		With regar	d to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:		
		the pro	stest together with the decision thereon has been transmitted to the International Bureau together with the ant's request to forward the texts of both the protest and the decision thereon to the designated Offices.		
			ision has been made yet on the protest; the applicant will be notified as soon as a decision is made.		

### Reminders

To:

JAMES B. MYERS, JR.

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Mail Stop PCT. Attn: ISA/US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230

Authorized officer

LoAn H. Thanh

Telephone No. (703) 308-0858

Deine Kurcel



# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	cant's or agent's file reference -75ASH	FOR FURTHER ACTION		ration of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, ow.	
	International application No. International filing date (PCT/US03/07838 I4 March 2003 (14.03.2)		······································		
	Applicant ASH MEDICAL SYSTEMS, INC				
	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.				
This i	nternational search report consists  It is also accompanied	of a total of <u>3</u> sheets.  I by a copy of each prior art docum	nent cited i	in this report.	
1. B	asis of the Report				
	<ol> <li>With regard to the language, t</li> </ol>	he international search was carried of unless otherwise indicated under the		pasis of the international application in the	
	the international search was Authority (Rule 23.1(b)).	carried out on the basis of a translat	ion of the i	nternational application furnished to this	
b.	b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:				
	contained in the international	l application in written form.			
[	filed together with the intern	ational application in computer read	able form.		
	furnished subsequently to thi	s Authority in written form.			
	furnished subsequently to thi	s Authority in computer readable fo	rm.		
[	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
_	the statement that the inform been furnished.	ation recorded in computer readable	form is ide	entical to the written sequence listing has	
2.	Certain claims were found	unsearchable (See Box I).			
3.	Unity of invention is lacking	g (See Box II).			
4. V	Vith regard to the title,				
	the text is approved as submi	tted by the applicant.			
L	the text has been established	by this Authority to read as follows:		ENTERED	
5. V	Vith regard to the abstract,				
ſ	the text is approved as submi	tted by the applicant.			
	the text has been established, within one month from the da	according to Rule 38.2(b), by this attention of this international se	Authority a arch repor	s it appears in Box III. The applicant may, t, submit comments to this Authority.	
6. T	he figure of the drawings to be publ	ished with the abstract is Figure No	. 1		
Ď	as suggested by the applicant.	<del>-</del>	· <u>-</u>	None of the figures	
Ī	because the applicant failed to				
Ī	because this figure better cha				
_		CHIVIN			

Form PCT/ISA/210 (first sheet) (July 1998)





International application No.

PCT/US03/07838

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

### **NEW ABSTRACT**

In general, this invention is directed to medical devices that exhibit antimicrobial activity and to methods for preparing and using the medical devices. The medical devices (12) of the present invention include a polymeric portion (10) that has been impregnated with an organic dye exhibiting antibacterial properties. Examples of organic dyes for use in the present invention include methylene blue, toluidine blue, methylene violet, azure A, azure B, azure C, brilliant cresol blue, thionin, methylene green, bromcresol green, gentian violet, acridine orange, brilliant green, acridine yellow, quinacrine, trypan blue, and trypan red. The medical device (12) can be prepared by contacting the organic dye and a reducing agent. A solution with appropriate chemical activation of the organic dye can permeate entirely through the plastic. Various medical devices can be treated: examples include catheters, sutures, surgical staples, sponges, and hydraulic circuits of dialysis machines and water purification systems. As an example catheter treatment can be performed after catheter construction, allowing impregnation of glue joints, side-holes, hubs, etc.





# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/07838

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61M 25/00  US CL : 604/265						
	International Patent Classification (IPC) or to both	national classification and IPC	<del></del>			
	LDS SEARCHED		<del></del>			
	ocumentation searched (classification system followed 504/265, 264, 523; 427/2.3	by classification symbols)				
Documentati	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic da east/ brs	ata base consulted during the international search (nat	ne of data base and, where practicable, sear	rch terms used)			
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where		Relevant to claim No.			
, <b>X</b>	US 5,709,672 A (ILLNER) 20 January 1998, see e	ntire document	1-7,9-11, 15-23,.25			
			12-14, 24			
Α	US 4,885,855 A (MARKS, SR. et al.) 12 December 1989, see entire document		1-25			
Α	US 6,025,312 A (SAITO et al.) 15 February 2000, see entire document		1-25			
	_					
Further	documents are listed in the continuation of Box C.	See patent family annex.				
• Sp	ecial categories of cited documents:	"T" later document published after the inter	national filing date or priority			
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the applica principle or theory underlying the inven	tion but cited to understand the			
	lication or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be considere when the document is taken alone				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the cl considered to involve an inventive step				
O document	ocument referring to an oral disclosure, use, exhibition or other means combined with one or more other such		documents, such combination			
P" document priority date	published prior to the international filing date but later than the te claimed	*&* document member of the same patent family				
	tual completion of the international search	Date of mailing of the international search 06 OCT 2003	ı report-			
	2003 (07.09.2003)					
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US		Authorized officer	1. 1. (21			
Commissioner for Patents		LoAn H. Thanh Dunie Rus	120240 /6			
P.O. Box 1450 Alexandria, Virginia 22313-1450  Telephone No. (703) 308-0858			•			
acsimile No. (703)305-3230						

Form PCT/ISA/210 (second sheet) (July 1998)